Fig-1A
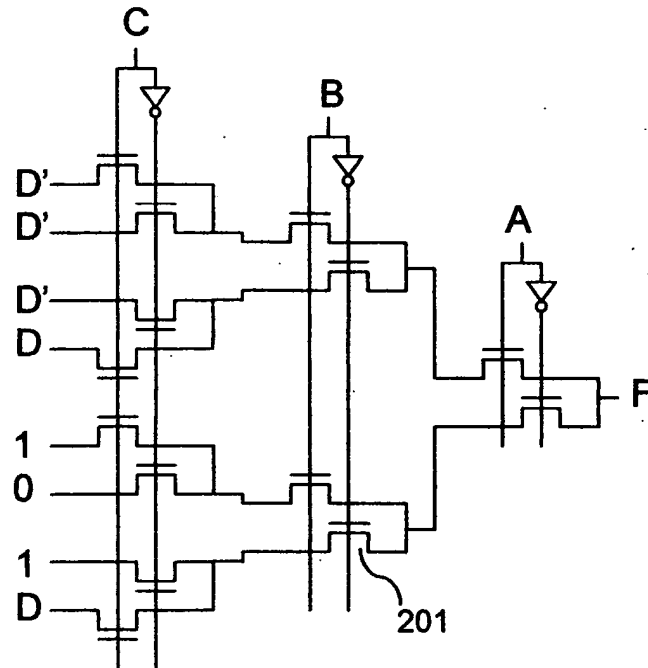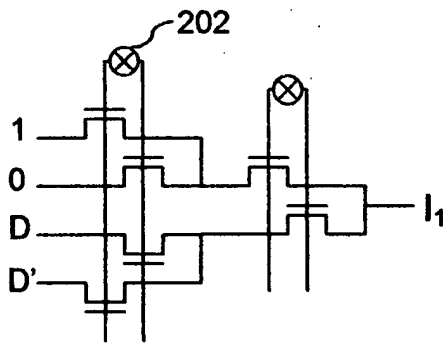

Fig-1B

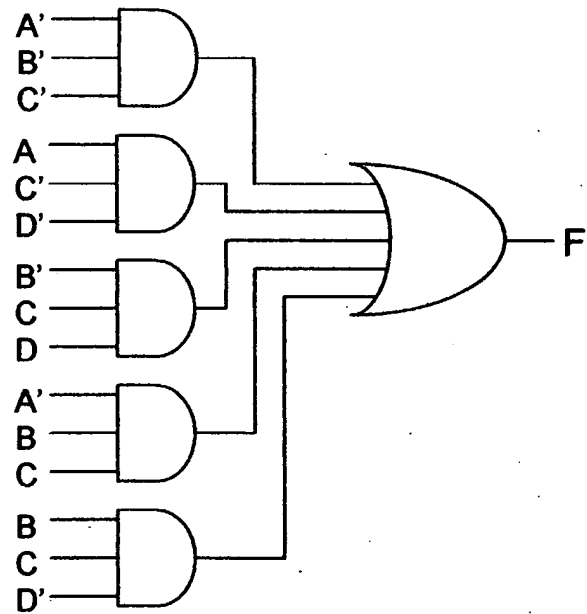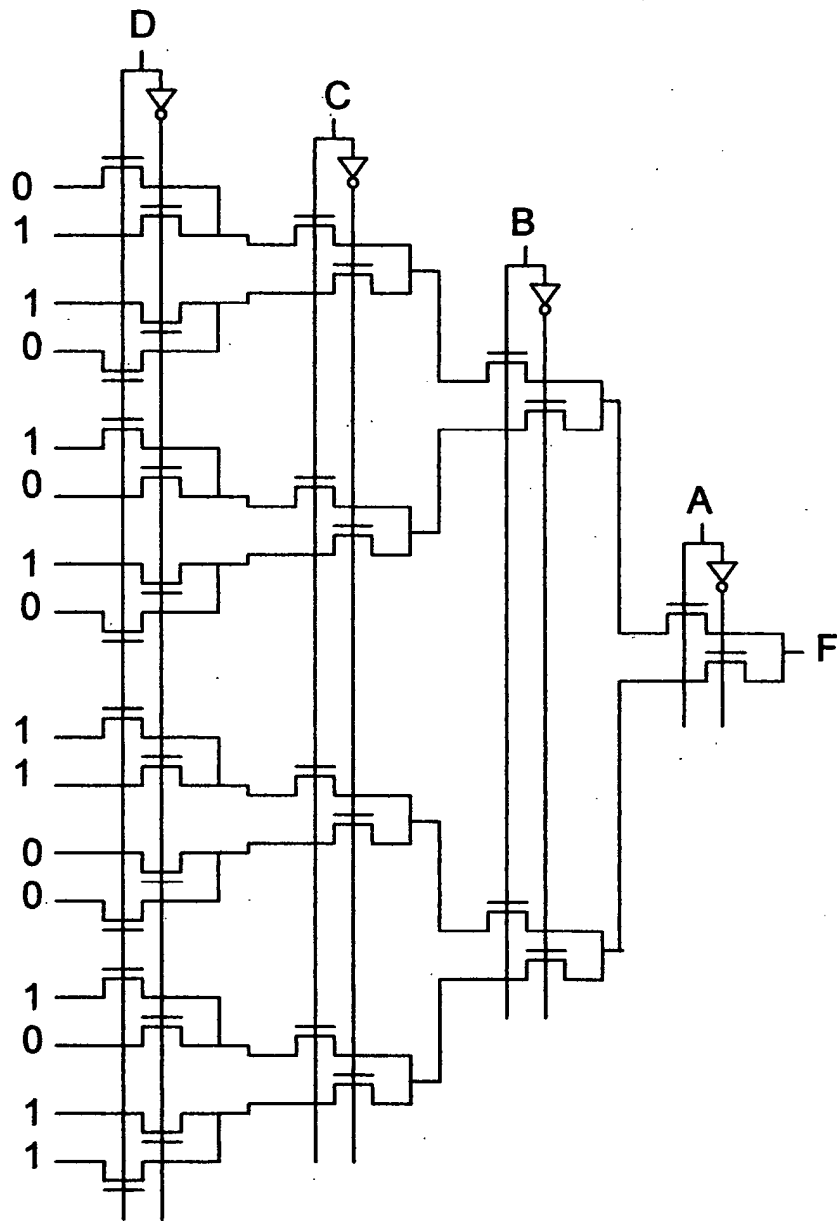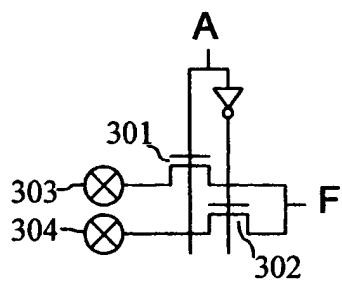$$F = A'B'C'+AC'D'+B'CD+A'BC+BCD'$$

Fig-2A
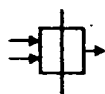
Fig-2B

Fig-2C

$$F = A'B'C'+AC'D'+B'CD+A'BC+BCD'$$

Fig-2D

Fig-2E

Fig-3A

Fig-3B
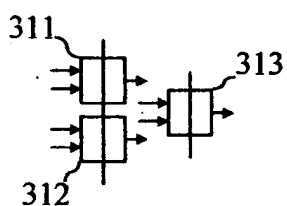
Fig-3C
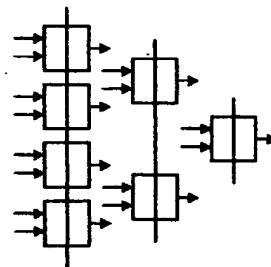
Fig-3D
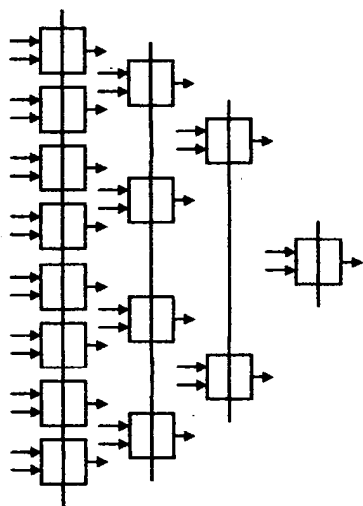
Fig-3E
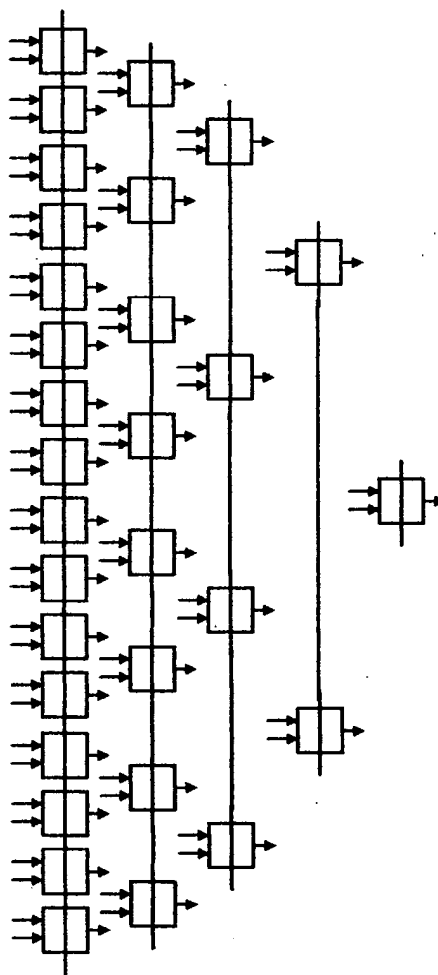
Fig-3F

K-LUT	Per K-LUT
K	# 1-LUTs
2	3
3	7
4	15
5	31
6	63
7	127

Fig-3G

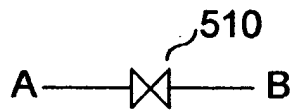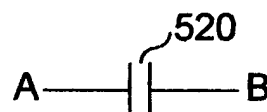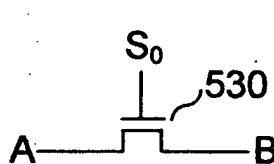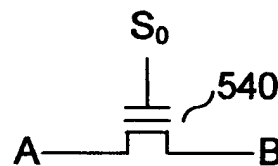| K-LUT	No of	Per K-LUT	Equivalent	% 1-LUT
K	K-LUTs	# 1-LUTs	1-LUTs	Utilization
2	4300	3	12900	100.0%
3	3000	7	21000	61.4%
4	2380	15	35700	36.1%
5	2000	31	62000	20.8%
6	1600	63	100800	12.8%
7	1400	127	177800	7.3%

Fig-4

Fig-5A

Fig-5B

Fig-5C

Fig-5D

Fig-6A

Fig-6B

S₀ → S_0
GA
X
BL
750
VA
VB
760
770

Fig-7

PL
CG
820
RL
810
830
840
S_0

Fig-8A

PL
CG
821
S_0
RL
851
811
831
841

Fig-8B

68

Fig-9

Fig - 10.1

(b)

(a)

Fig - 10.2

Fig - 10.3

(b)

(a)

Fig - 10.4

(a) (b)
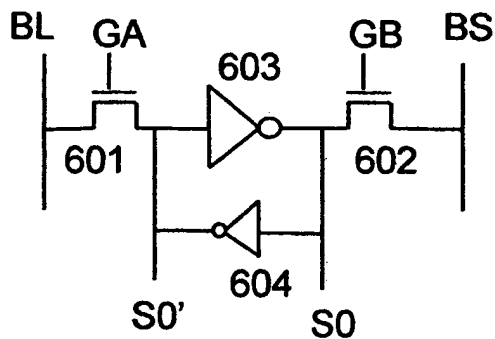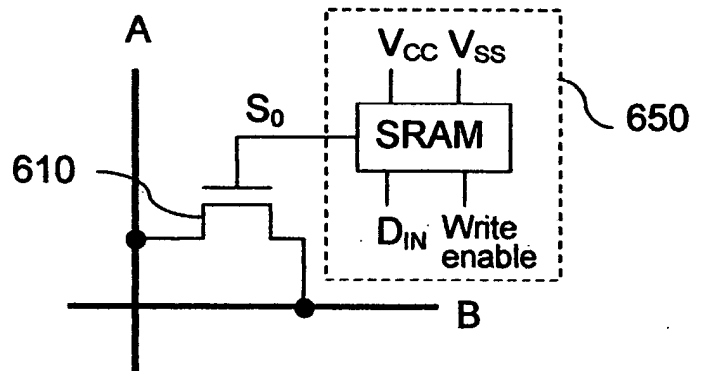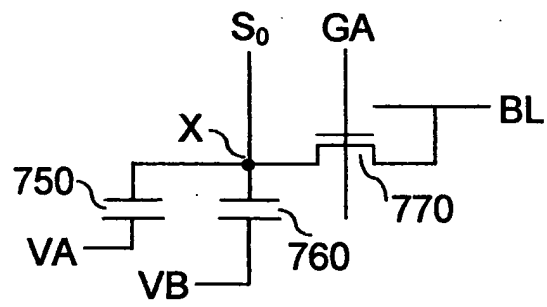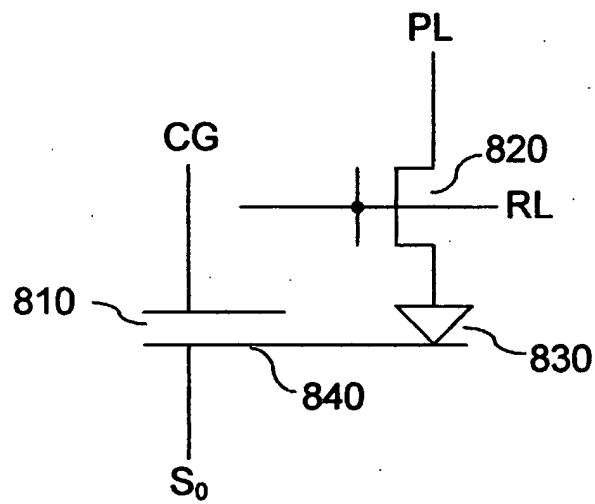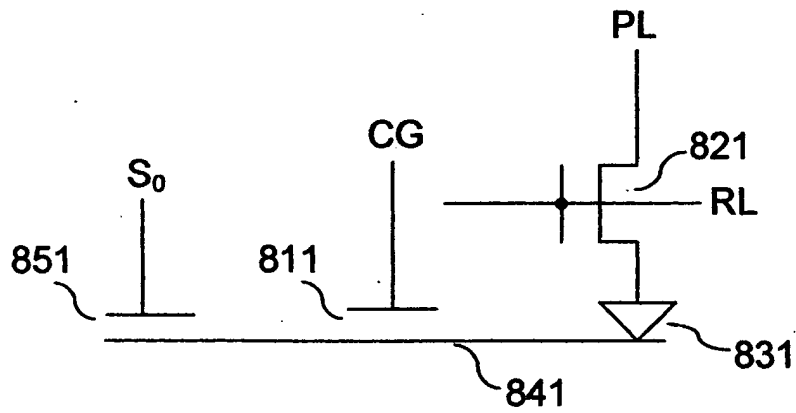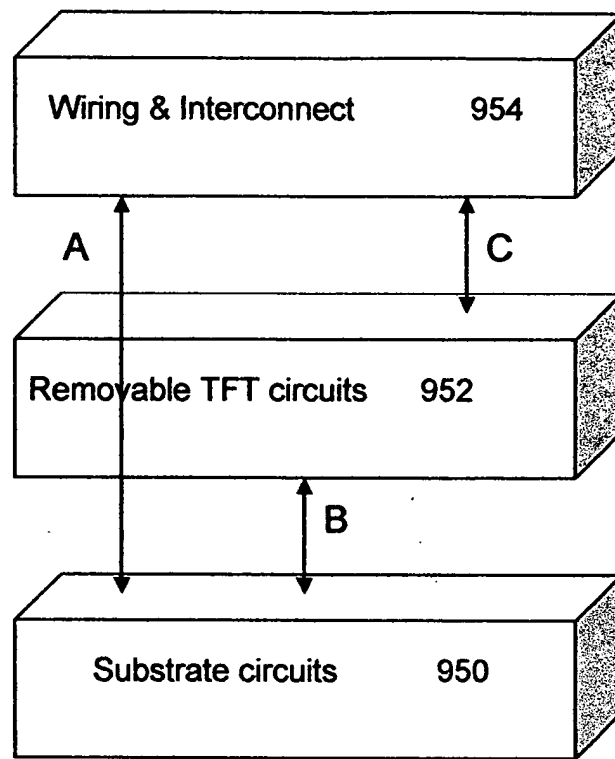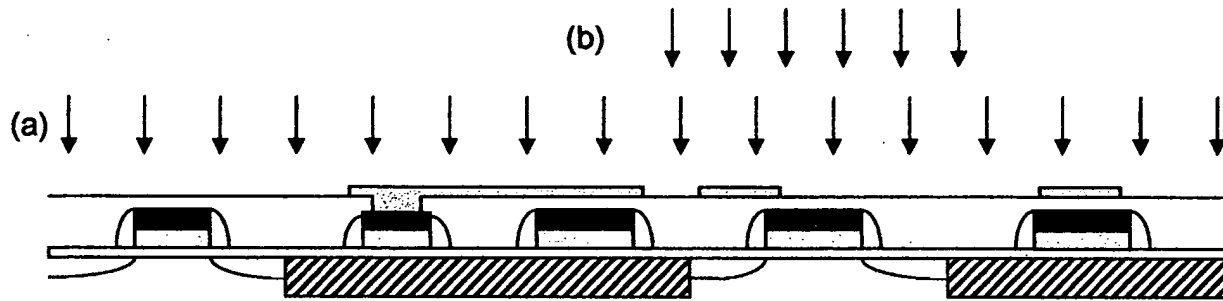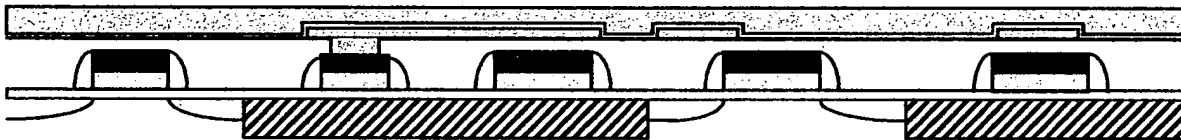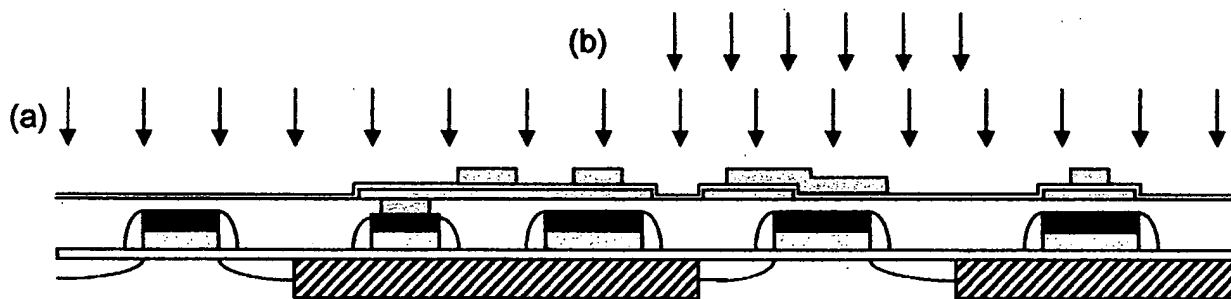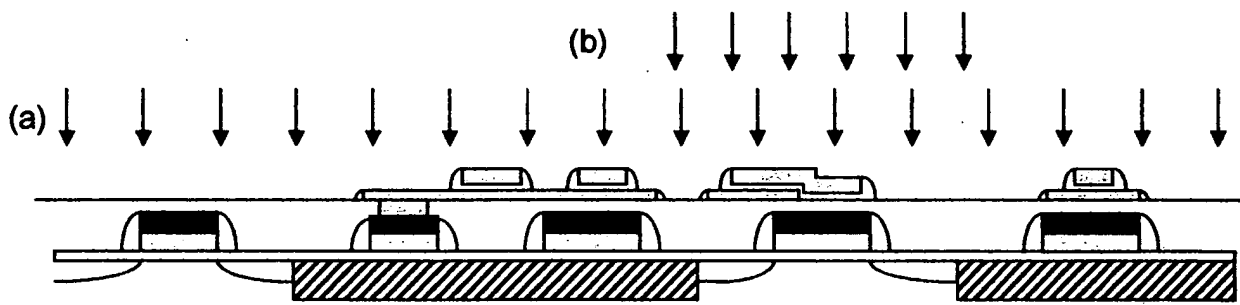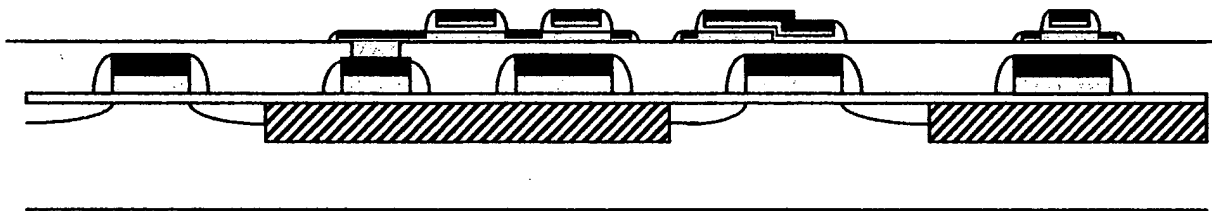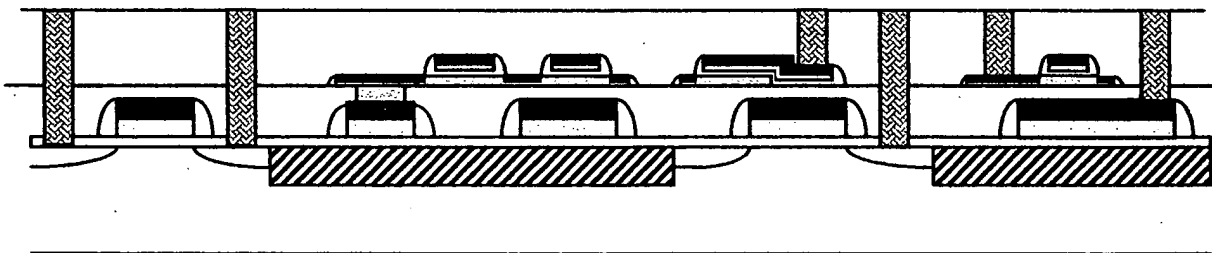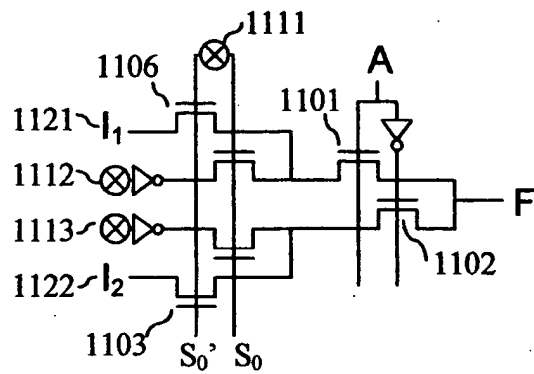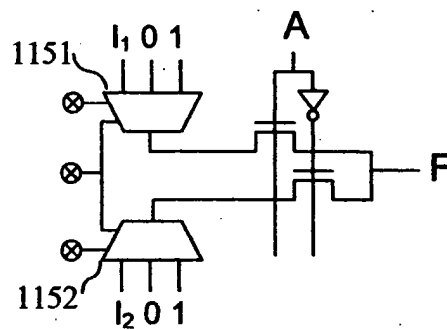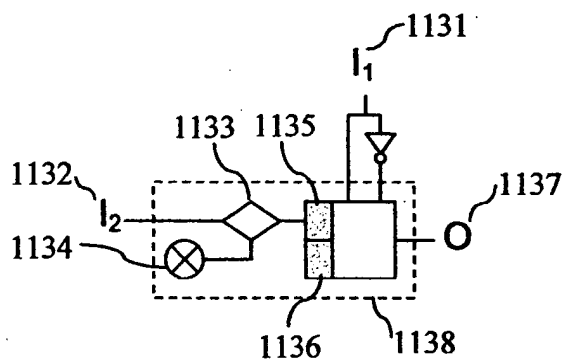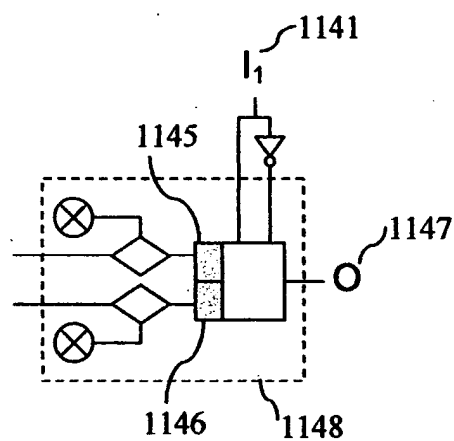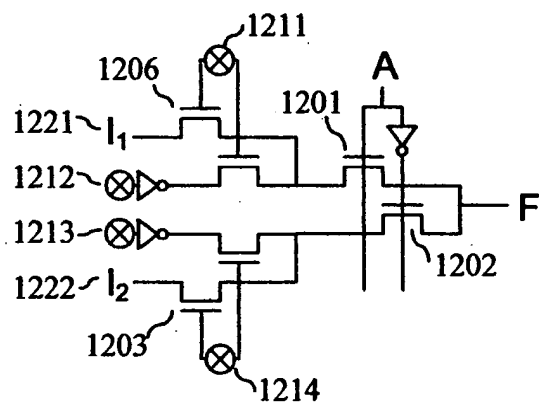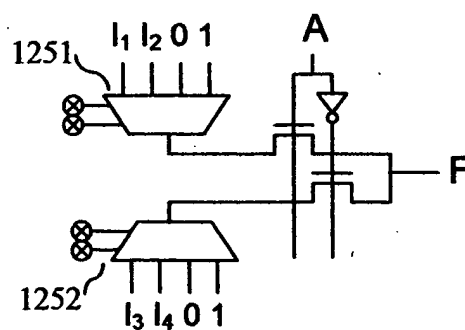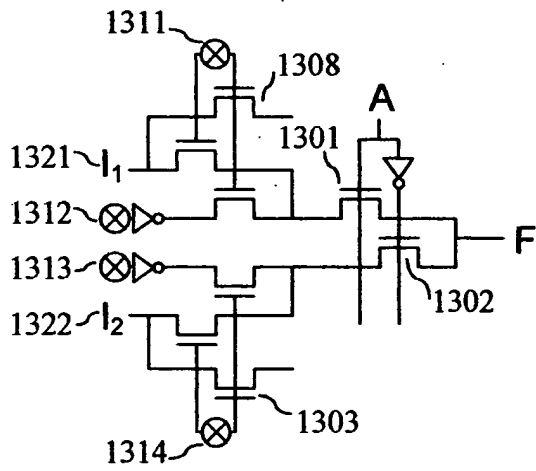
Fig - 10.5

Fig - 10.6
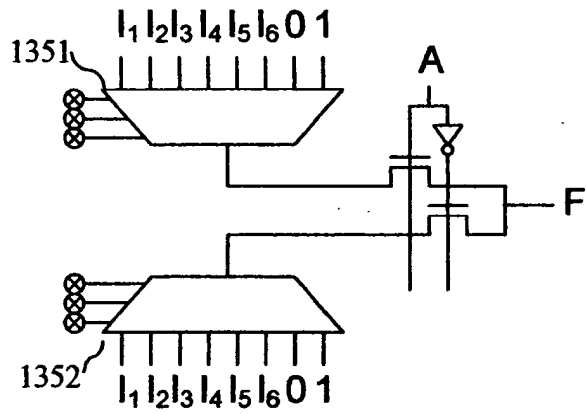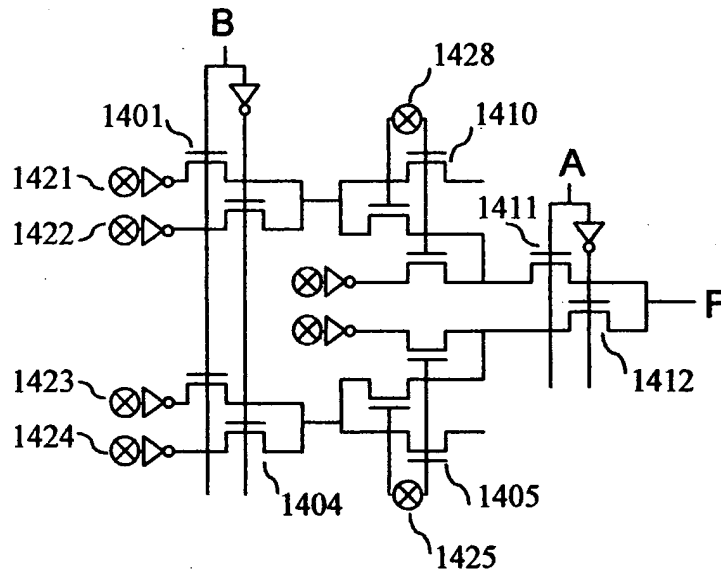
Fig - 10.7

Fig-11A

Fig-11B

Fig-11C

Fig-11D

Fig-12A

Fig-12B

72

Fig-13A

Fig-13B

Fig-14

Fig-15

74

Fig-16A

Fig-16B

I₁

1701

1702

I₂

I₃

I₄

I₅

I₆

I₇

1707

1708

I₈

C

B

A

F

Fig-17A

77

Fig-17B

78
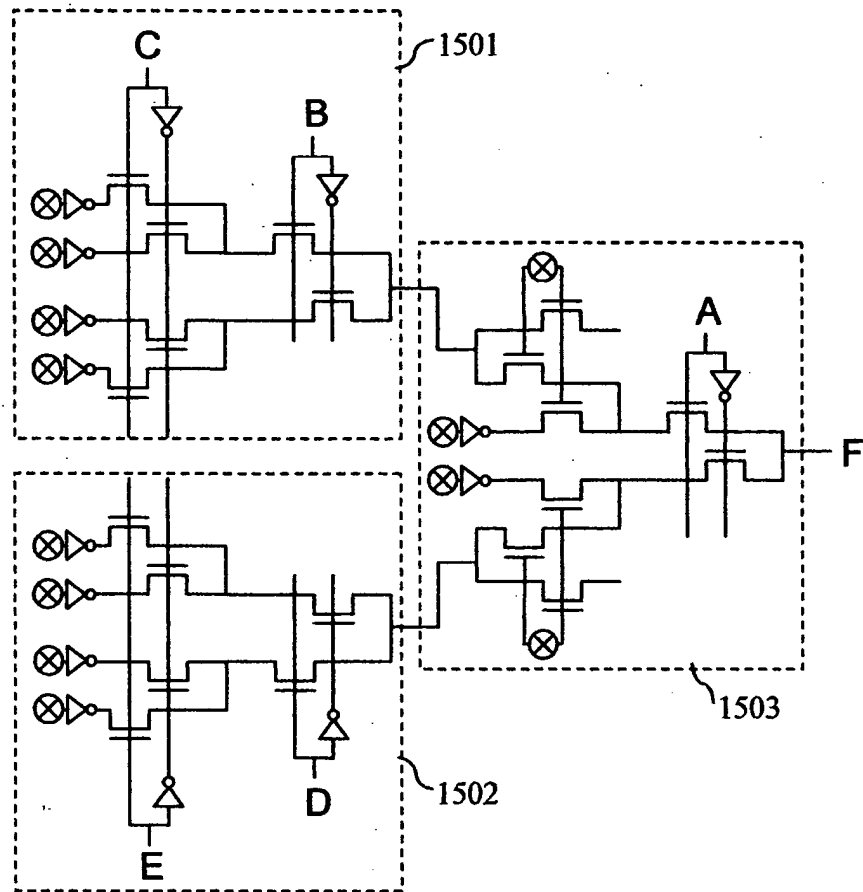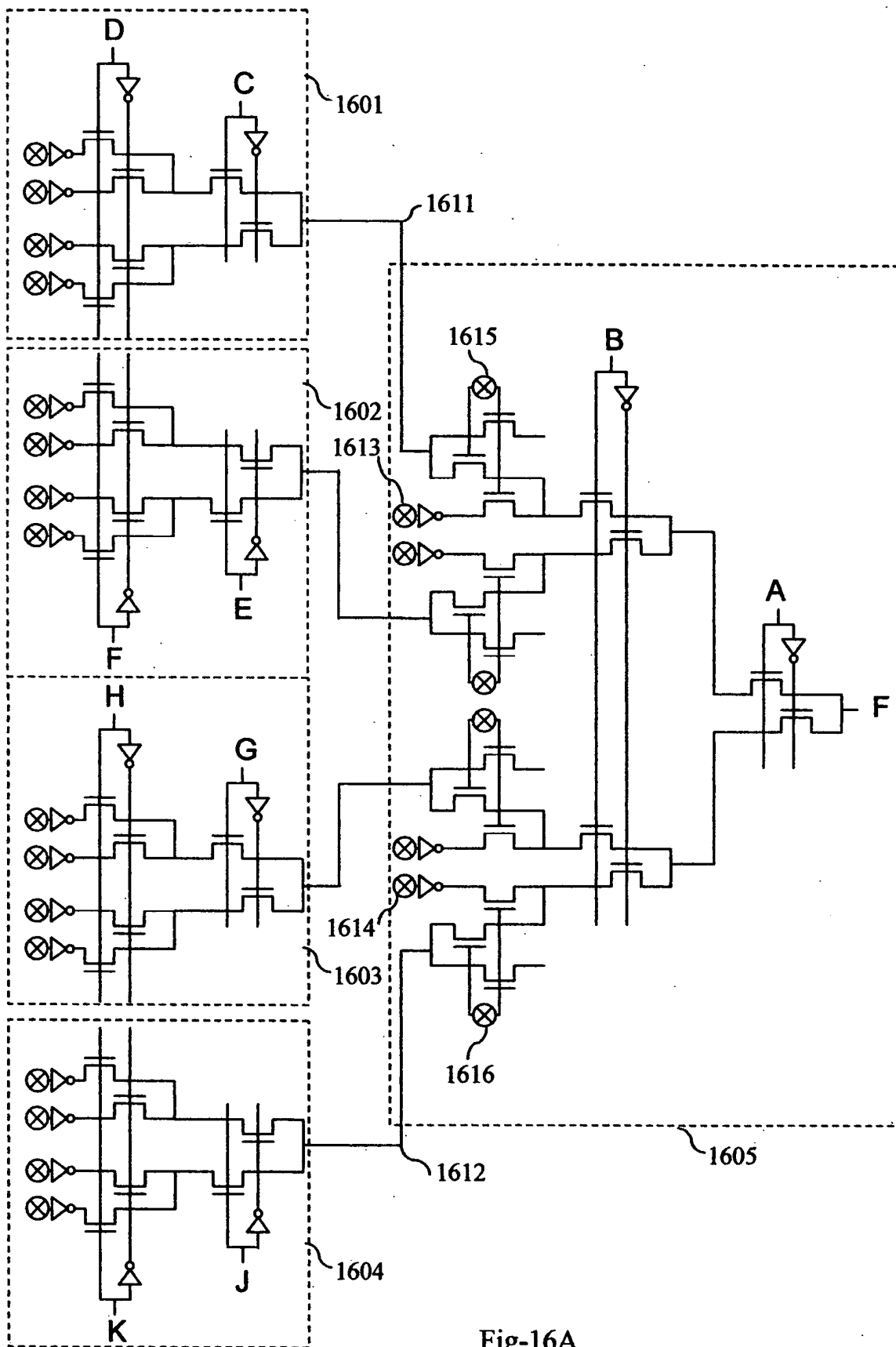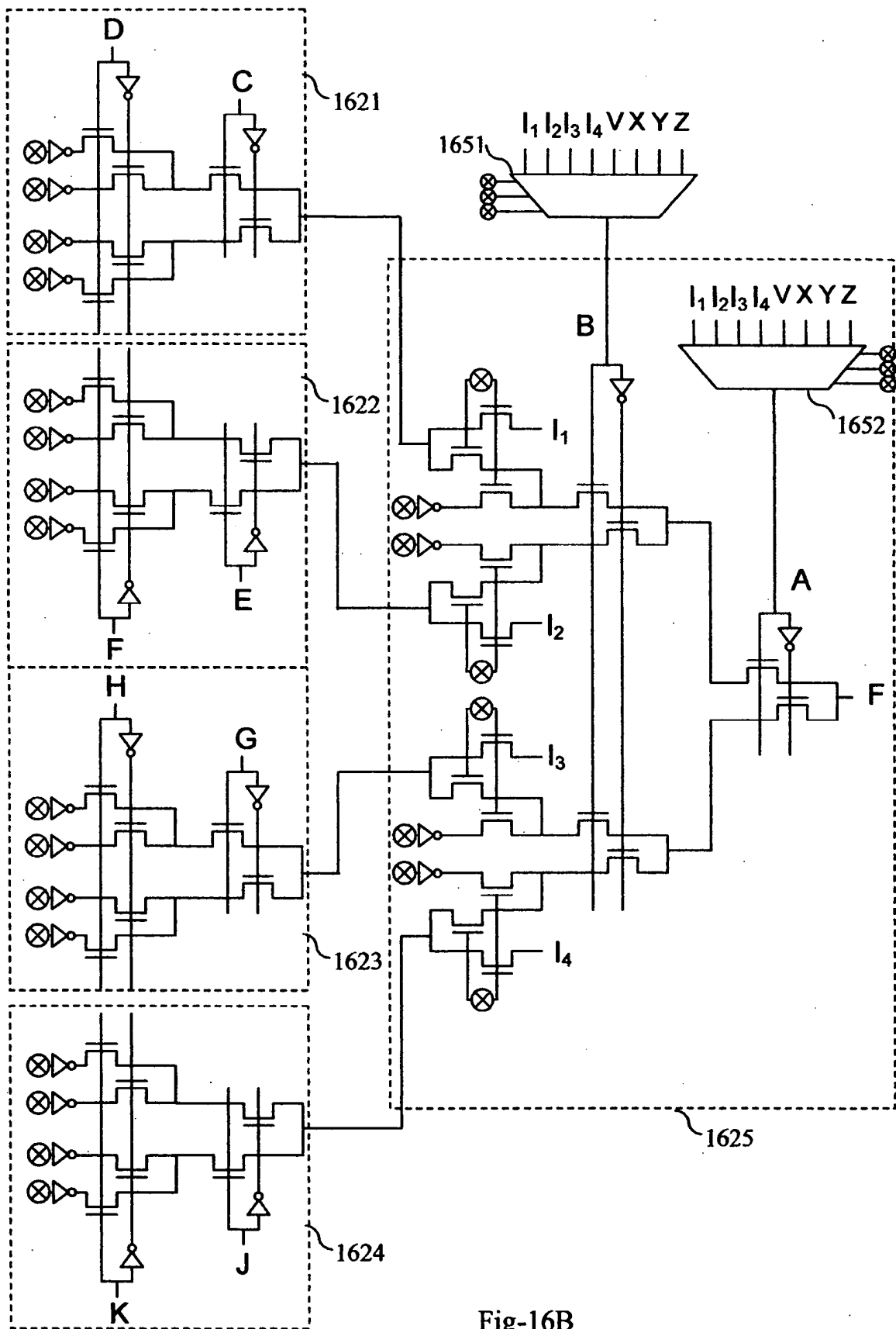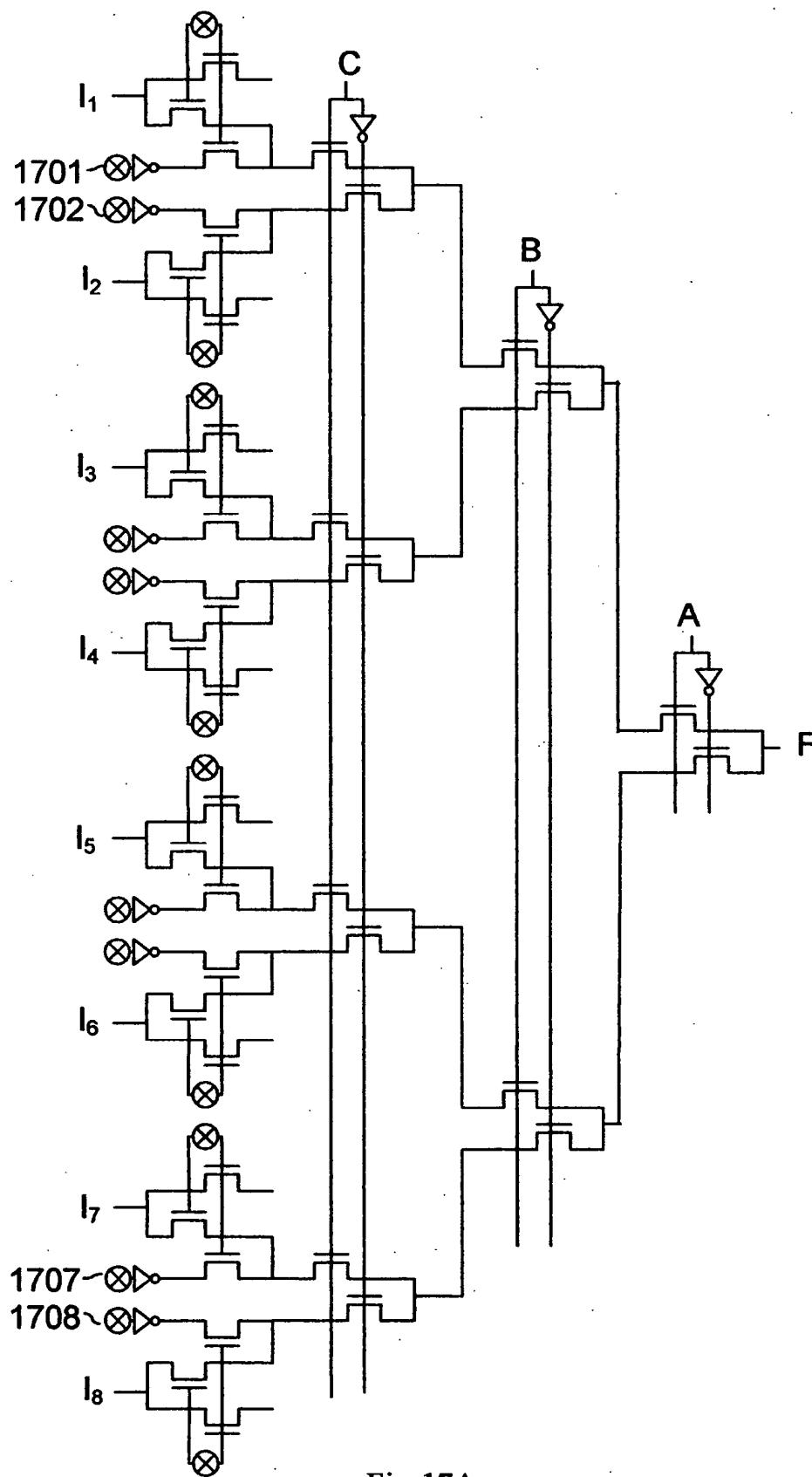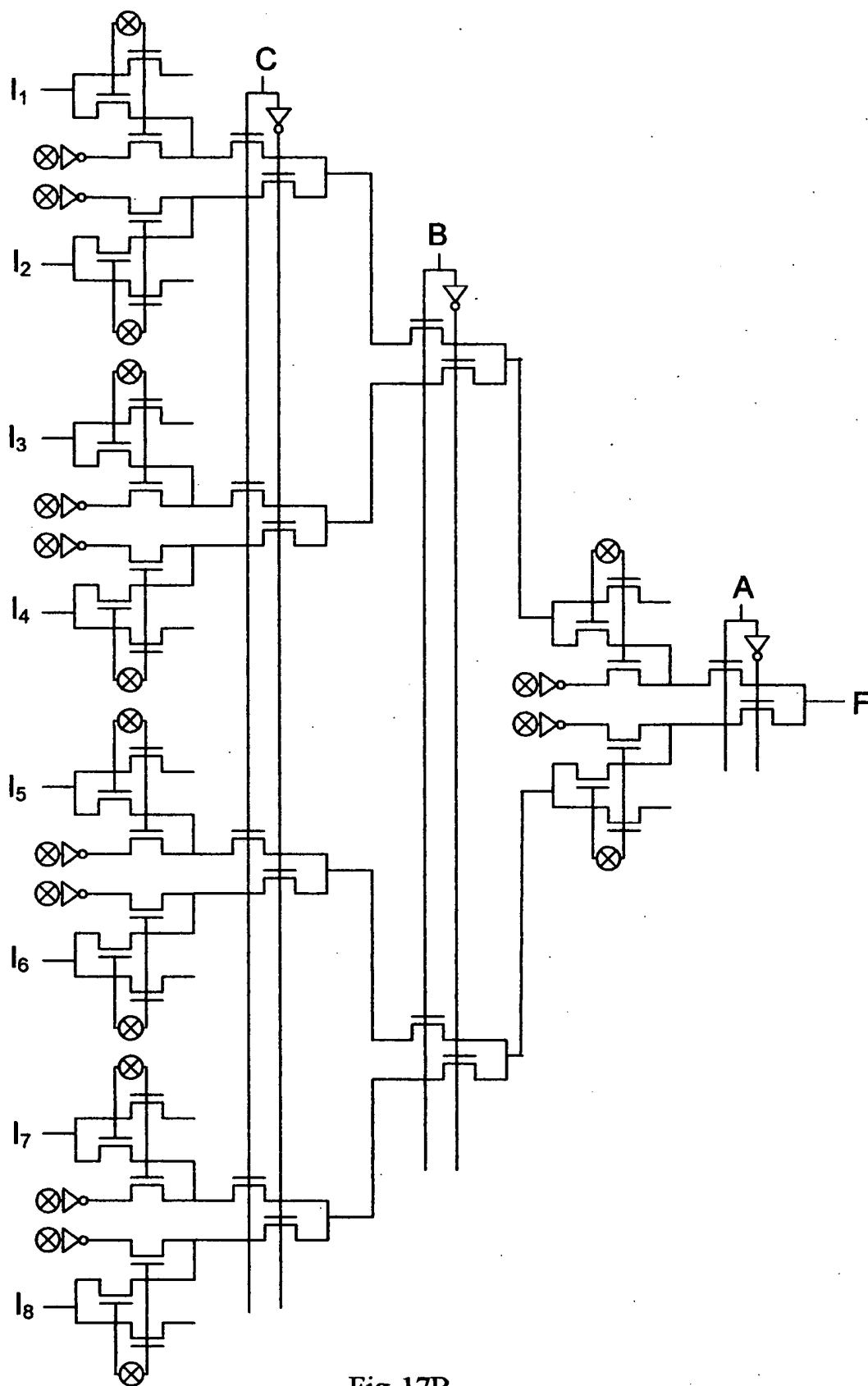
F = A + BC' + CD

CD AB	00	01	11	10
00	0	0	1	0
01	1	1	1	0
11	1	1	1	1
10	1	1	1	1

Fig-18A

B

C

A

1
0

0
1

1

F

D

Fig-18B

D

C

B

A

1
1
1
1
1
1
1
1
1
1
0
1
1
1
0
0
0

F

Fig-18C

79

Fig-18D

80